[METHOD FOR MAKING ELECTRICAL CONNECTION TO ULTRASONIC TRANSDUCER]

Abstract of Disclosure

A method of making an electrical connection between a pair of electrically conductive surfaces, comprising the steps of: placing an electrically conductive (e.g., metal) mesh and a mass of adhesive material between a pair of mutually opposing electrically conductive surfaces; pressing the electrically conductive surfaces together with the mesh and adhesive material therebetween with sufficient pressure that the mesh contacts the opposing electrically conductive surfaces; and curing the adhesive material while pressing the electrically conductive surfaces together. In an ultrasonic transducer, electrically conductive mesh can be placed between a metallized rear surface of a piezoelectric ceramic layer and a printed circuit on a dielectric substrate. Alternatively, the mesh can be placed between opposing metallized surfaces of a piezoelectric ceramic layer and an acoustic backing layer, with electrical conductors being passed through the acoustic backing layer for connection to a printed circuit.

Figures